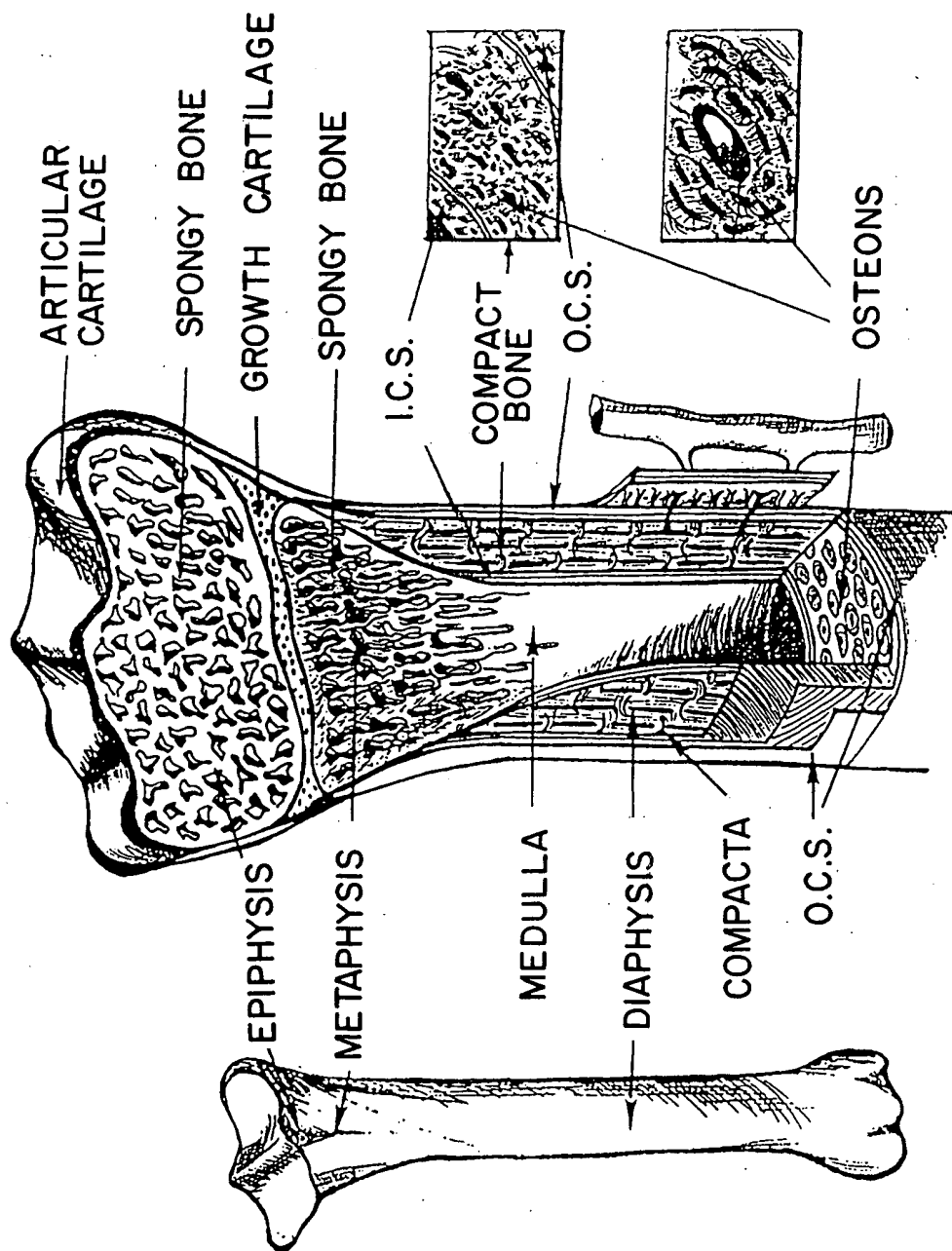


FIG. 1



02570 U.S. PTO
111504

FIG. 2A

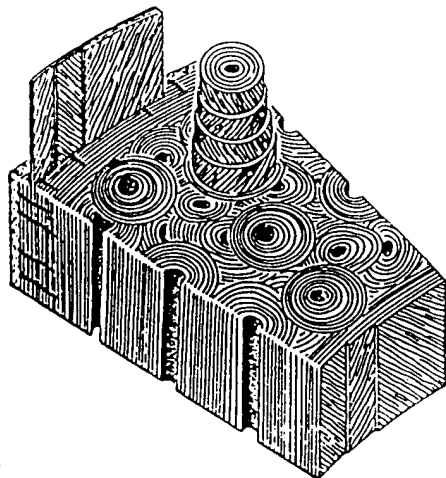


FIG. 2B

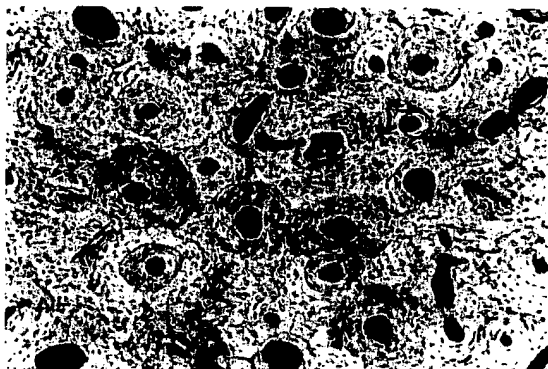


FIG. 2C

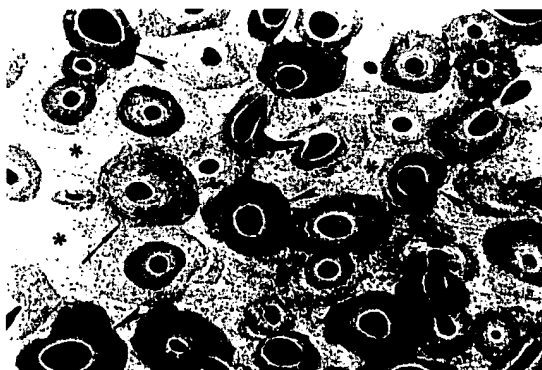
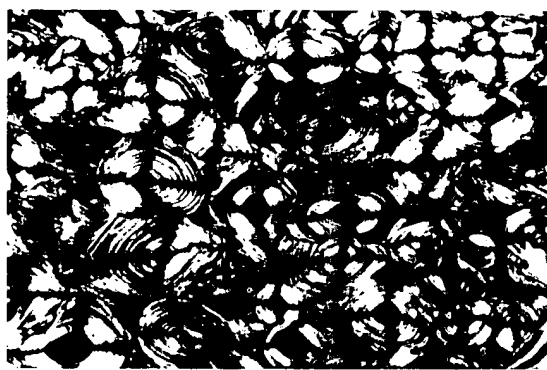


FIG. 2D



09/981,684

3/21

Inventor: Maria-Grazia Ascenzi

Serial No. 09/981,684

Title: SYSTEM AND METHOD FOR MODELING

BONE STRUCTURE

Docket No. 04079/100H629-US2



111504

02570 U.S. PTO

09/981,684

FIG. 3A

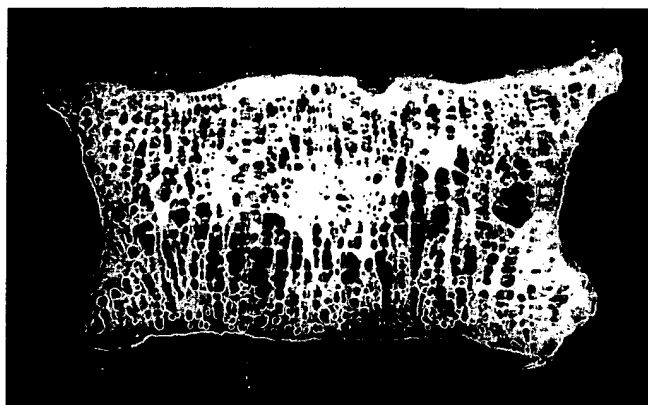
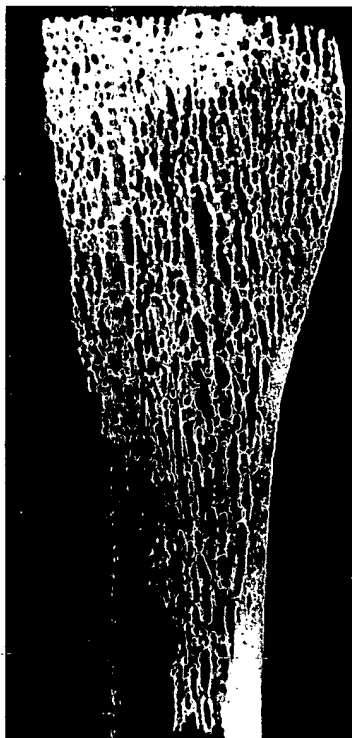


FIG. 3B



Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

09/981,684

4/21

FIG. 4A



FIG. 4B

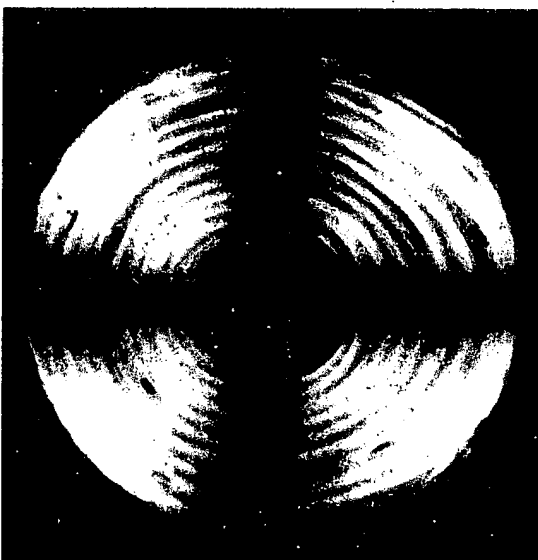
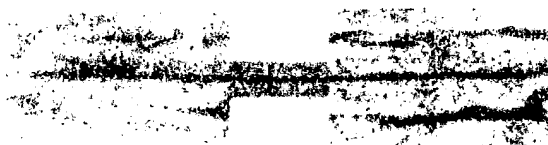


FIG. 4C



02570 U.S. PTO
111504

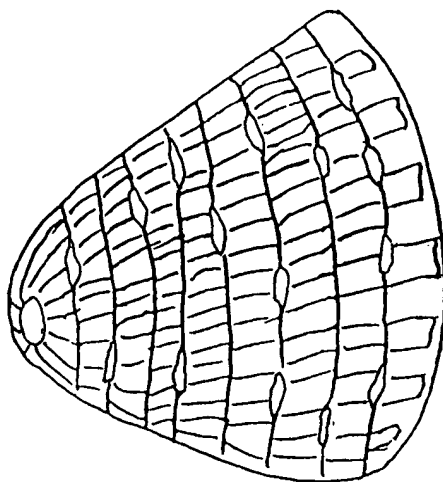
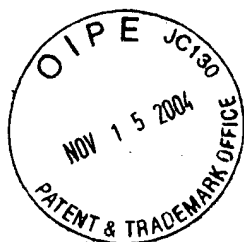


FIG. 5

FIG. 6A

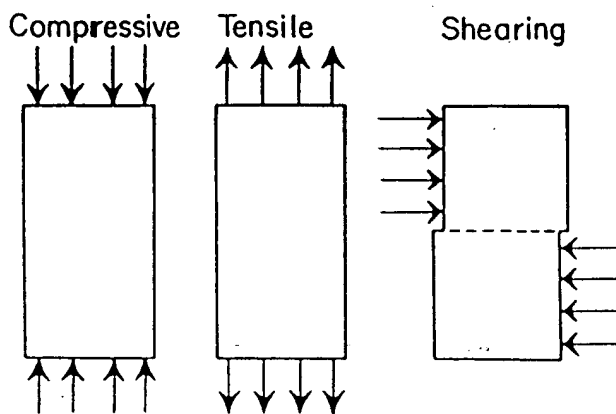
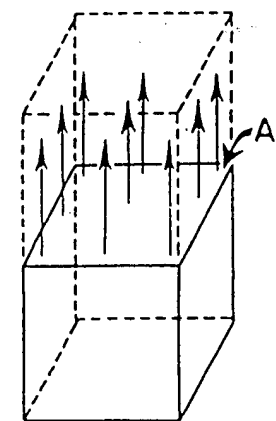


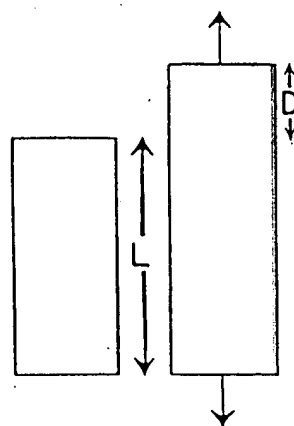
FIG. 6B



$$\text{Stress} = \frac{\text{Force (P)}}{\text{Area (A)}}$$

(S)

FIG. 6C



$$\text{Strain} = \frac{\text{Deformation (D)}}{\text{Length (L)}}$$

(e)

Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

09/981,684
6/21

FIG. 7A

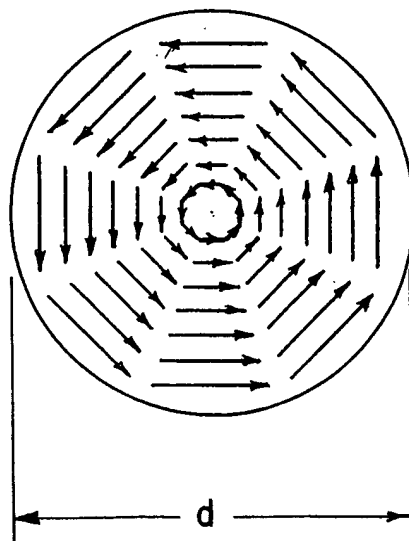
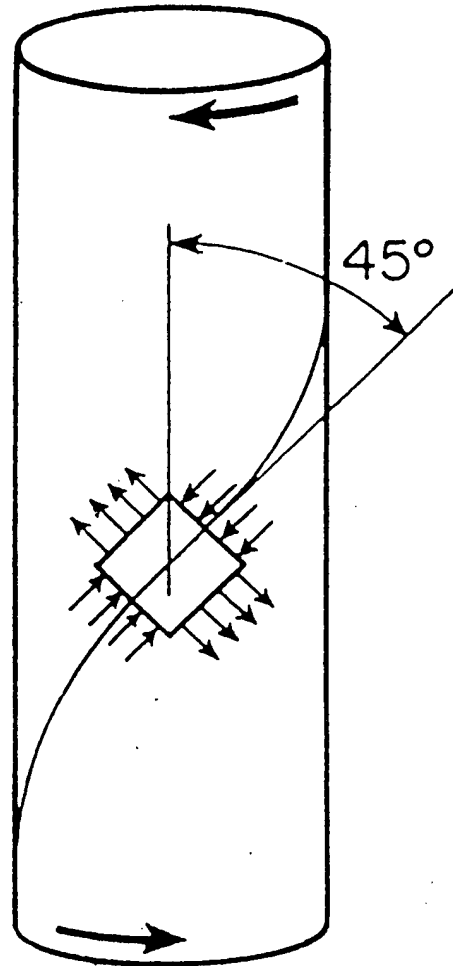
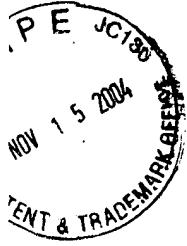


FIG. 7B



09/981,684

7/21

FIG. 8A

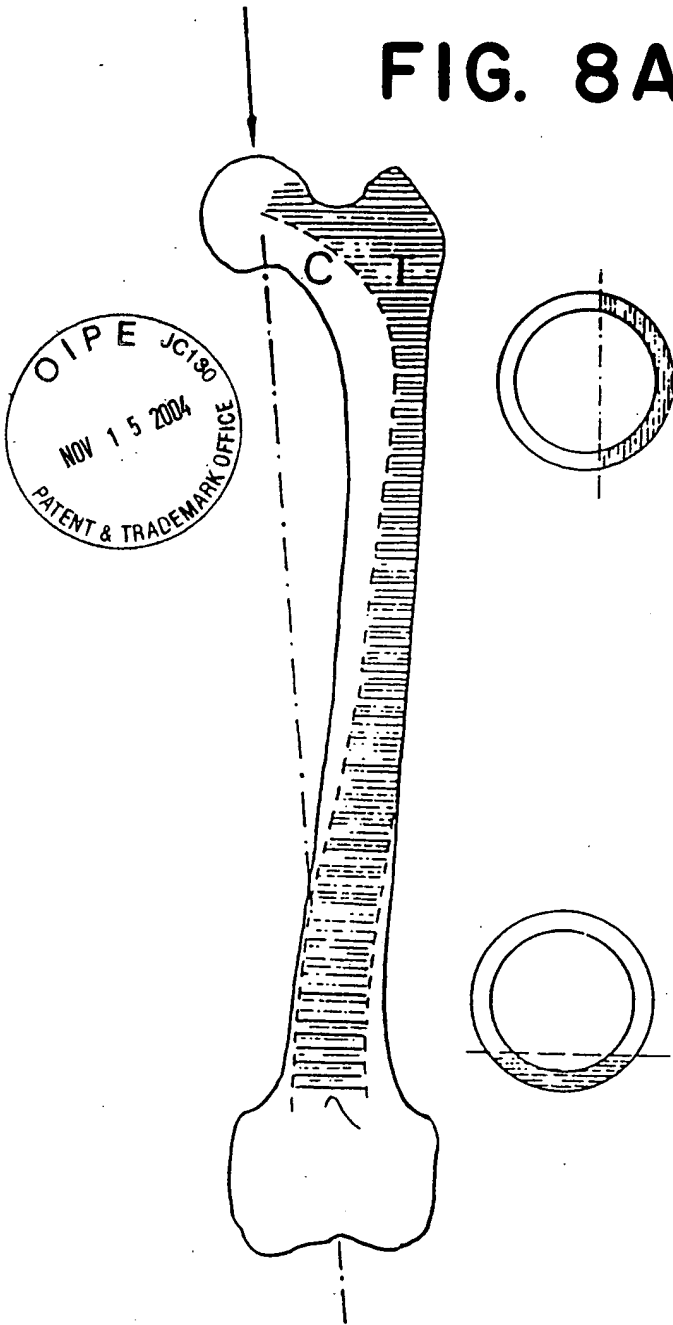


FIG. 8B

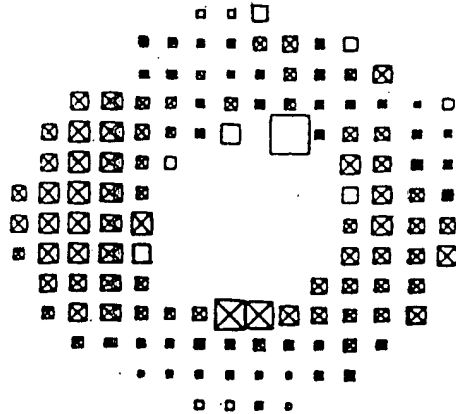


FIG. 8C

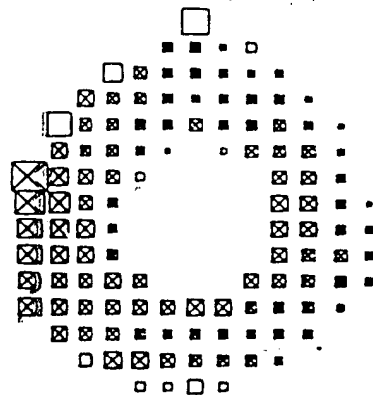
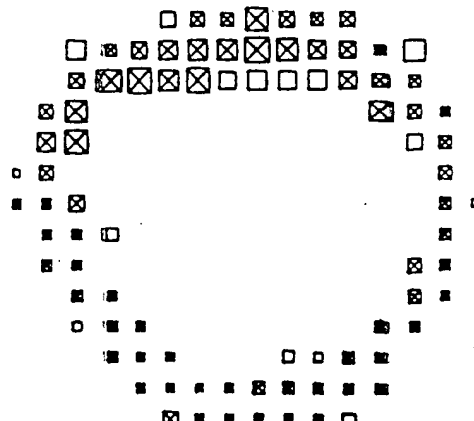


FIG. 8D



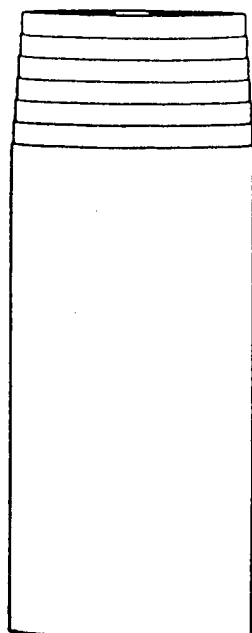


FIG. 9A

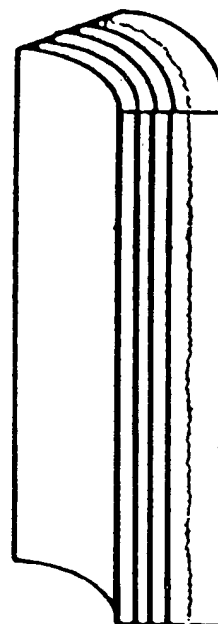


FIG. 9B

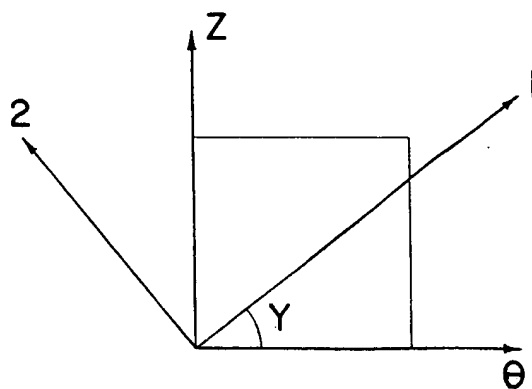


FIG. 9C

Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

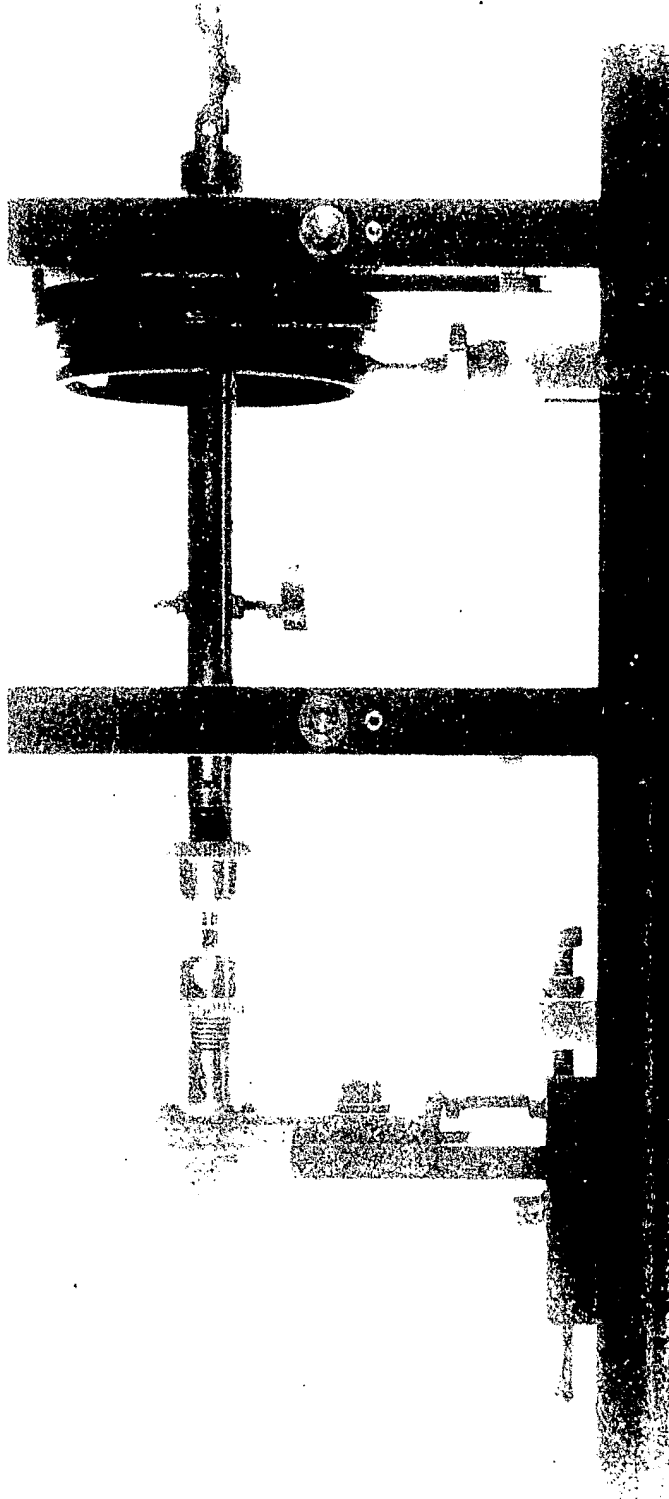
9/21



111504

02570 U.S. PTO

FIG. 10



Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

09/981,684

10/21

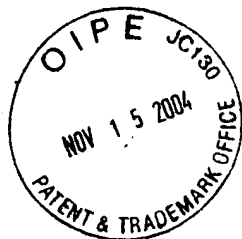
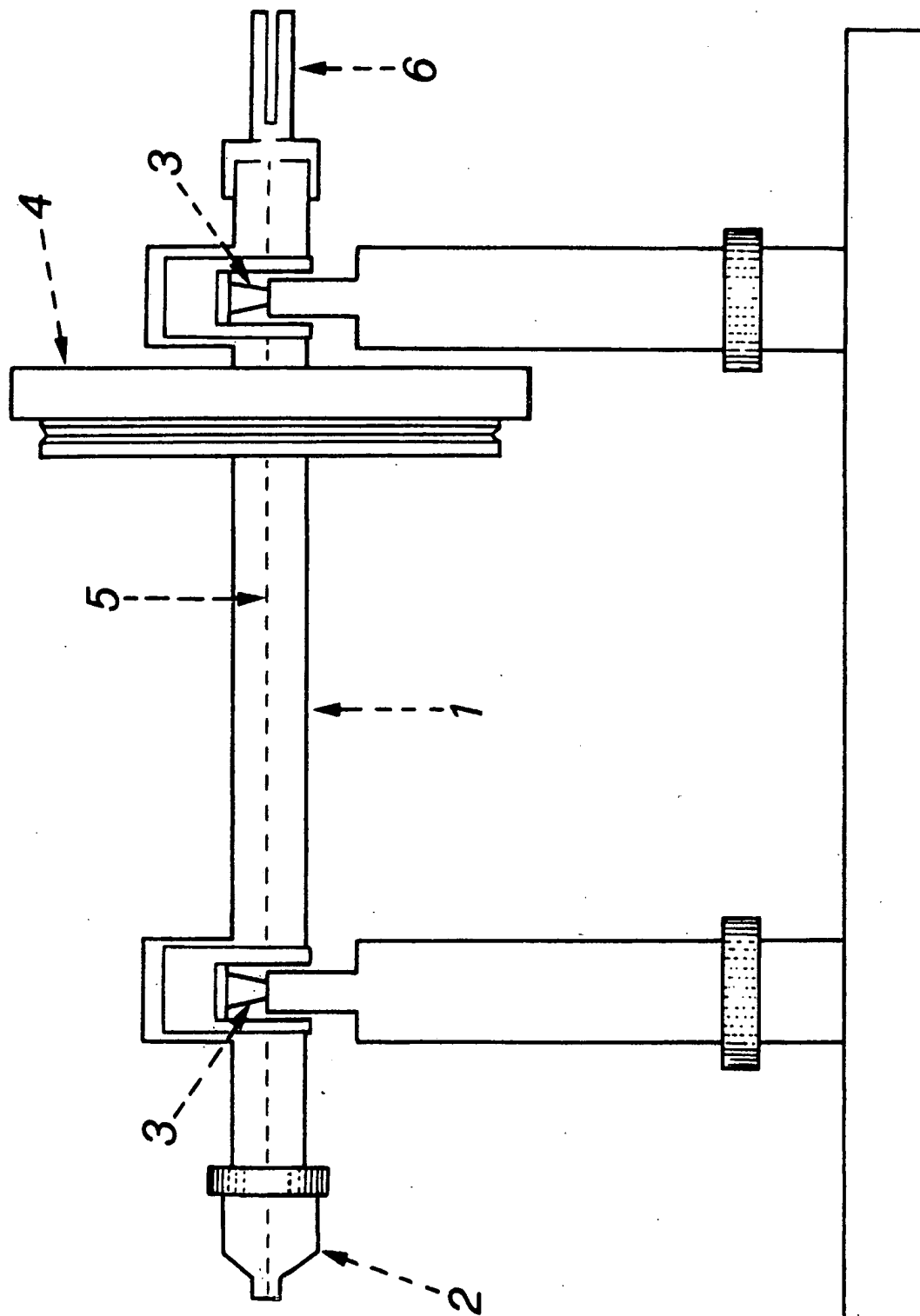
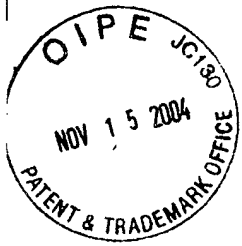


FIG. 11





09/981,684

11/21

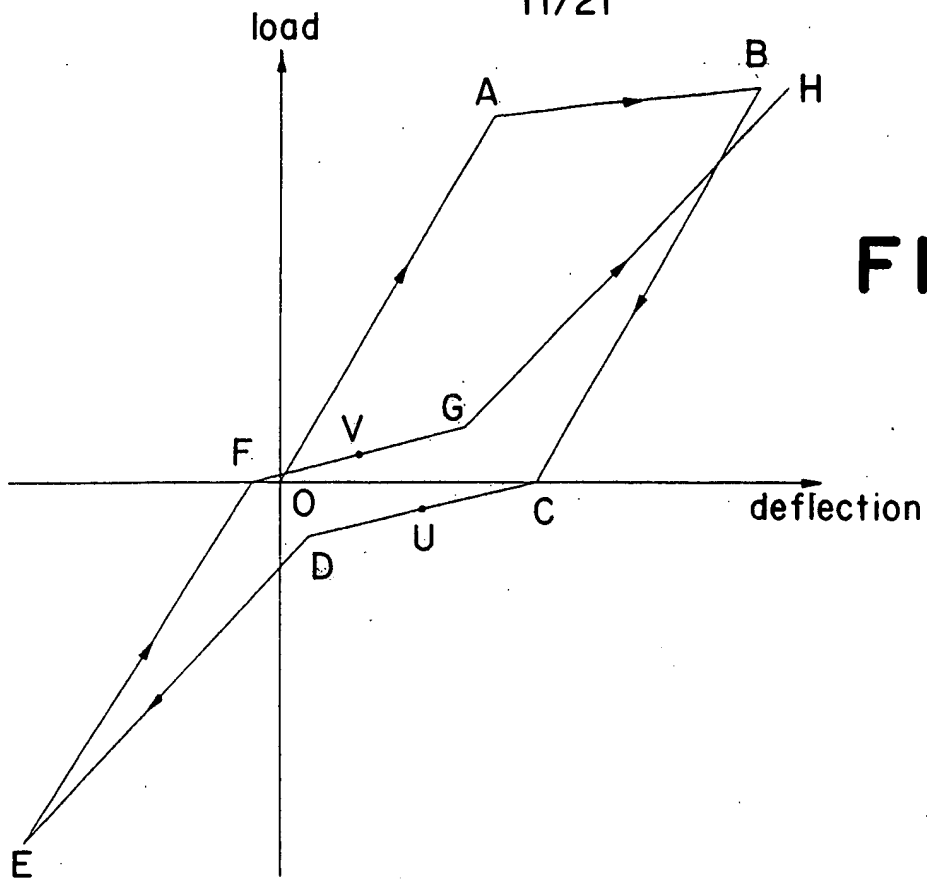


FIG. 12A

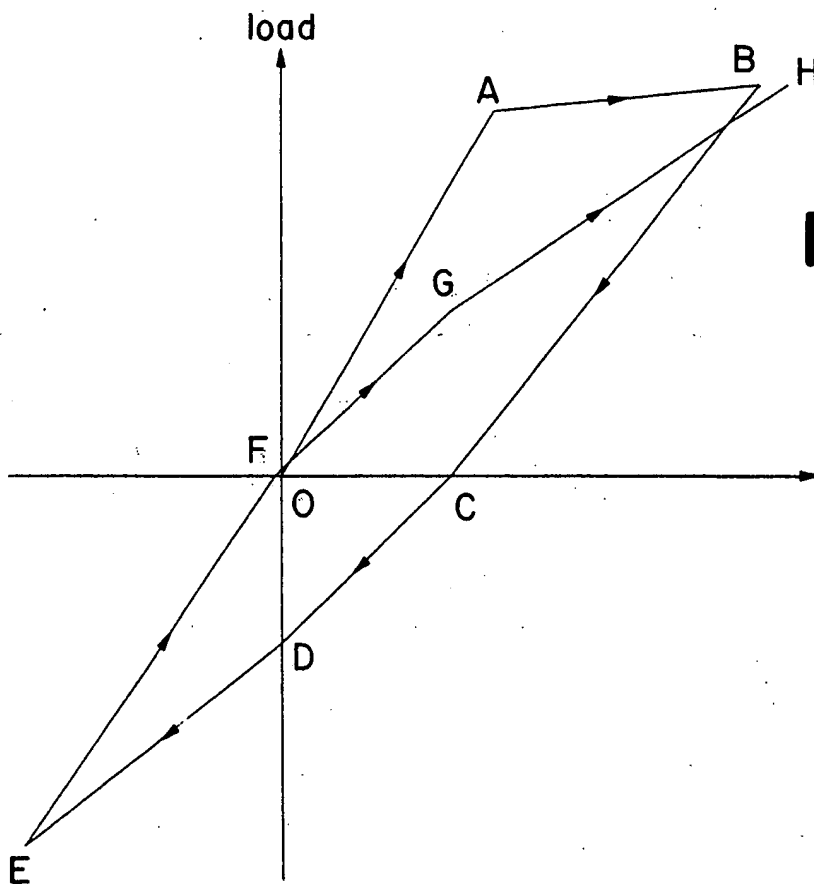
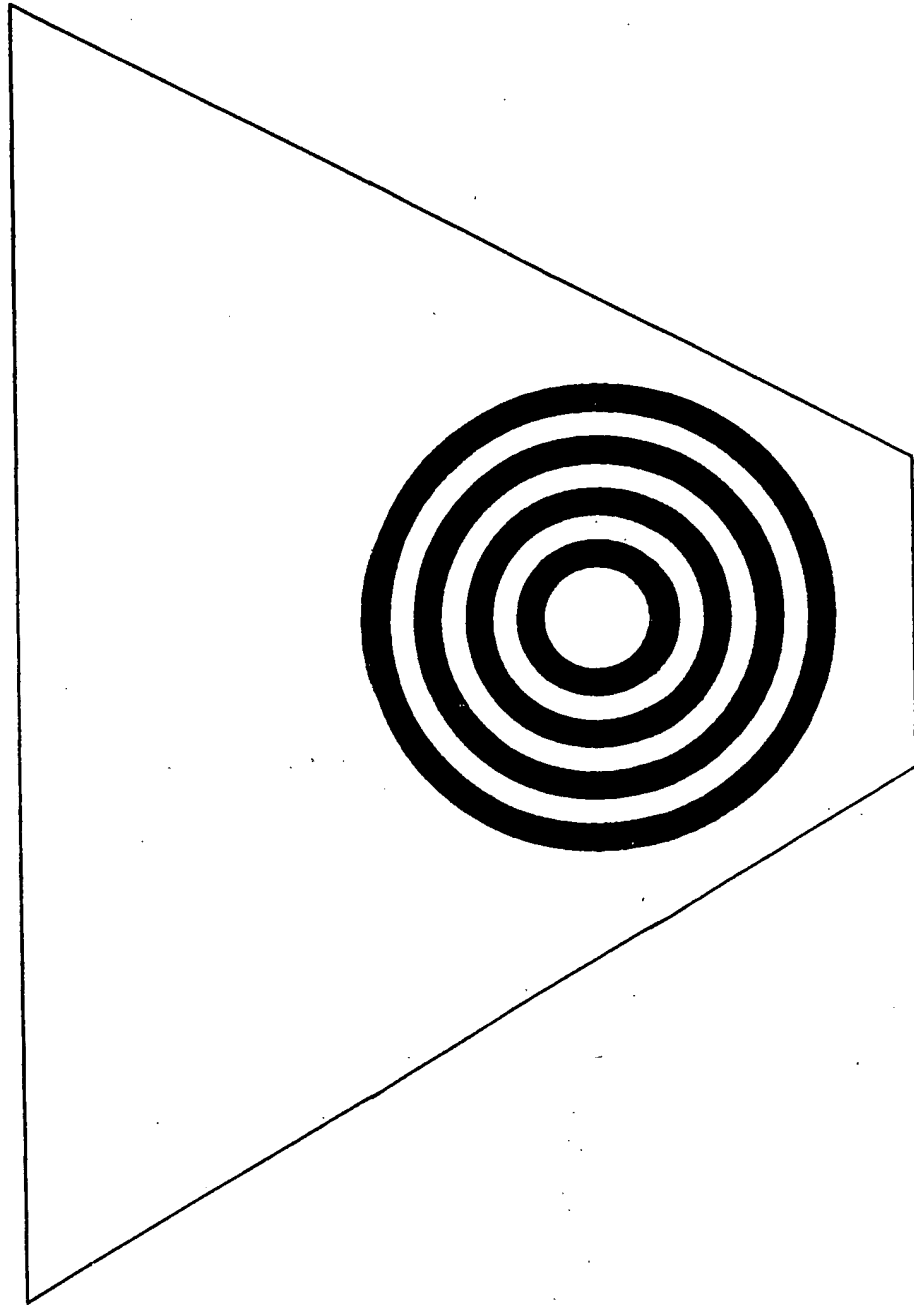


FIG. 12B

Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

09/981,684
12/21

FIG. 13



Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

13/21

FIG. 14



FIG. 15



02570 U.S. PTO
111504

Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

09/981,684

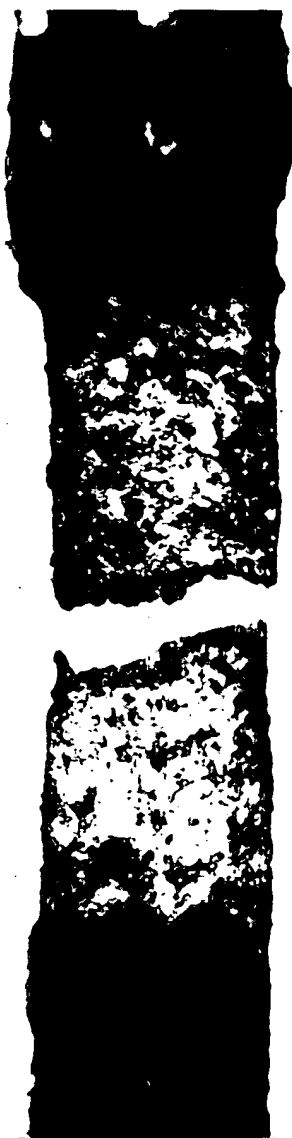
14/21



111504

02570 U.S. PTO

FIG. 16



Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

15/21



111504

02570 U.S. PTO

FIG. 17



09/981,684

16/21

Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

FIG. 18



02570 U.S. PTO

09/981,684

17/21

Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

FIG. 19



02570 U.S. PTO
111504

Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

09/981,684
18/21



111504

02570 U.S. PTO

FIG. 20A



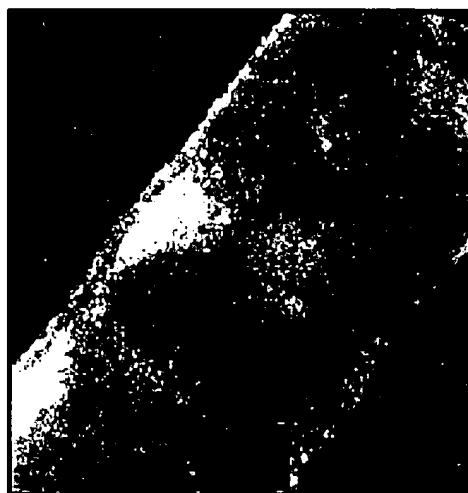
FIG. 20B



FIG. 20C



FIG. 20D



Inventor: Maria-Grazia Ascenzi
Serial No. 09/981,684
Title: SYSTEM AND METHOD FOR MODELING
BONE STRUCTURE
Docket No. 04079/100H629-US2

09/981,684
19/21

02570 U.S. PTO
111504

FIG. 20E

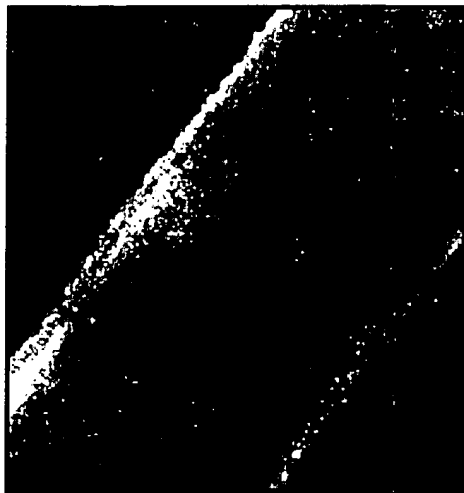


FIG. 20F



FIG. 20G



FIG. 20H

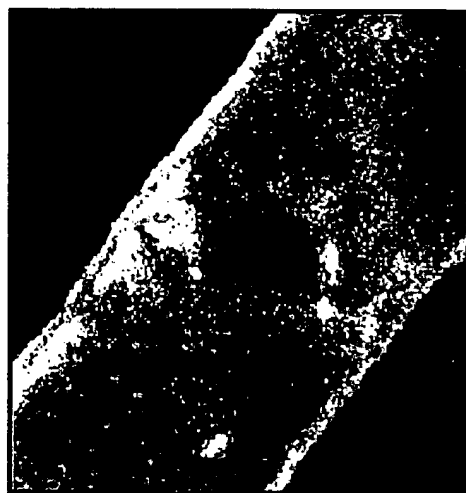


FIG. 21A



FIG. 21B



FIG. 21C



FIG. 21D



02570 U.S. PTO
111504

FIG. 21E



FIG. 21F



FIG. 21G

